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# NUMBERS & ODDITIES #
//////////////////////////////////// \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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-::: N&O #54 October 2002 :::-

Due to circumstances, only a short N&O. Please, keep sending your findings!

★ VOICE STATIONS ★

- E10
Only one oddity in October: "SYN 6P0K", heard on 7 Oct. at 2000 UTC.
- E15
Where is E15? Gone or just bad conditions???
- E18
E18 was heard at 2100 UTC on 9 and 10 Oct. on 6545 kHz with "269 Number 184, Group 17" and into message. Then "269" repeated, followed by "Number 184, Group 17" and a repeat of the message. Off with "000".
- E25
Heard on 14 Oct. at 1250 UTC on 9450 AM. 4FGs messages with a very weak signal. No music intro.
- S17C
Active on 8190 and 5301 at 1250 UTC.

Both Chris and Ben heard S17 on 6945 kHz on 1 Oct. from 0150-0205 UTC. Chris says "We've never heard it before on this sked. It sounds like after the end, the carrier stayed on, and some background voices could be heard, I'll have to check the recording again and give a listen."

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::: ILLICIT STATIONS

The number of illicit "crimi" stations in Indonesia is growing. According to reports from that area the traffic heard is from people smugglers, dope dealers and terrorists. Popular frequencies are 7000-7015 kHz, 7025 kHz and 14177 kHz.

-0-0-0-0-0-0-0-0-0-0-

* MORSE STATION *

::: M08

Could it be possible that M08 uses transmitter sites outside Cuba? It certainly looks like it. I received recently a report from Canada where M08 is unusual loud and it is suggested that the Ottawa based embassy could be the source of the transmission.

This may be also the answer to John's question: "Any speculation on this station's location? Their signal is always well over S-9 here, near Boston. S-9 +20 on most frequencies...."

John reports some M08 problems as well:

4016 kHz, M08 at 0250 UTC with TX keying problem, intermittent callup. ID 83353 34731 11211. Nothing heard after 0301 UTC.

Missed sked. Much backwave on keyed signal, difficult copy. TX problem also?

10124.9 kHz, 0344 UTC. ID 11722. Short callup then silent. At 0349 UTC in LSB a male voice "TEST TEST" distorted audio. Sounds like Modulated CW using VOX with audio hum. Testing in both voice and CW.

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::: M16

8BY copied on 10248, 14931 and 20649. Also on 7000 kHz. A very unusual frequency! A harmonic perhaps?

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::: M18

The pseudo time station in Ust'Kamennogorsk, Kazakhstan, used to be on 4503 and 4073 kHz but hasn't been heard in Asia and Europe for a while. I wonder if it is still alive....

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::: M21

Russian Air Defense was heard on 4559, 6979.5, 7095, 7913.5 and 9025.5 kHz. Transmissions on 4559, 6979.5 and 9052.5 all had code "8" in the "=99" string and presumably originate from Khabarovsk.

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::: M23

This one slipped thru last month: Ralph noted a curious transmission of M23. Where normally a "310" transmission is heard, M23 sent a 10 minute "3100" message on 7960 kHz at 0200 UTC on 1 September.

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::: M40

Thanks for the M40 logs, Igor!!! You're the only one who has reported this station. Good to know that it's still there.

Freq: 5782 kHz, 1636 UTC, 17-9-2002, ident 671.

vvv cq671 cq671 cq671
hr hr 28 28 = =
t4938 t5495 7t169 48139 63t67 43712 929t7 92655 t7t83 66937 68973
14819 73967 9t381 71525 31998 19t43 734t8 78414 44484 86558 52614
68913 5t491 1t933 66957 38154 t5774 ar ar sk sk

19604 kHz, 0330 UTC, 17-9-2002, ident 611.

vvv cq 611,252 (rptd)
vvv cq252 cq252 cq252
hr hr 42 42 = =
44721 63375 93716 89621 44116 58983 t6744 99511 2t87t 66996
9298t 61t38 64518 t2247 6t251 884t6 5487t 16887 51734 615t4
9151t 88323 68718 64261 t722t 65587 788t4 t5252 99791 53638
25784 93799 56137 t3554 68376 14377 15258 94293 38678 86328
1156t 2281t ar ar
rpt rpt
vvv cq252 cq252 cq252
hr hr 42 42 = =
44721 63375 93716 89621 44116 58983 t6744 99511 2t87t 66996
9298t 61t38 64518 t2247 6t251 884t6 5487t 16887 51734 615t4
9151t 88323 68718 64261 t722t 65587 788t4 t5252 99791 53638
25784 93799 56137 t3554 68376 14377 15258 94293 38678 86328
1156t 2281t ar ar sk sk

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::: M51

Noted on 2548, 4012, 5129, 5407.5 and 5476.5 kHz.

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::: M87

Another one from Igor. Not often reported, so keep your logs coming, Igor!

16418 kHz, 0334 UTC, 17-9-2002.

154 154 154 154 154 154 154 000
154 154 154 154 154 154 154 000
154 154 154 154 154 000
154 154 154 154 000
154 154 154 000 000

12150 kHz, 1300 UTC, 22-10-2002

698 698 698 698 698 698 698 698 698 698 698 000
698 698 698 698 698 000
698 698 698 698 698 698 698 000
698 698 698 698 698 000
698 698 698 698 698 000
698 698 698 698 698 698 000 000

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::: MX

The sudden activity of three European cluster beacons is most likely related to the NATO/PfP exercise "Open Spirit 2002". This is an exercise in the Baltic Sea of the combined Minewarfare Flotillas of Belgium, Denmark, Estonia, Finland, France, Germany, Netherlands, Latvia, Lithuania, Poland, Romania, Russia, and Sweden. NATO's Standing Mine-Counter-Measure Squadron "MCM Force North" also joined in. Actual mine hunting took place from 21-26 October. Total duration of the exercise: 21 October-1 November.

The beacons C, D and P have been active on the following cluster frequencies:

D: Odessa P: Kaliningrad C: Moscow

-----	-----	-----
4557.7	4557.8	4558.0
5153.7	5153.8	5154.0
7038.7	7038.8	7039.0
8494.7	8494.8	8495.0
10871.7	10871.8	10872.0
13527.7	13527.8	13528.0
16331.7	16331.8	16332.0
20047.7	20047.8	20048.0

Other cluster beacons were heard as well:

European cluster beacon "S" Arkhangelsk left the air when "C", "D" and "P" started to transmit. "S" was on 4557.9, 5153.9, 7038.9, 8494.9, 10871.9, 13527.9, 16331.9, 20047.9 kHz till 20 October.

The Asian cluster beacons were also on the air, but as with all the beacons, not as active as they used to be. A cutback in expenditure?

"F" Vladivostok: 7039.2, 8495.2, 10872.2 kHz.

"K" Petropavlovsk Kamchatskiy: 7039 kHz.

"M" Magadan: 7039.4, 8495.4, 10872.4, 13528.4 kHz.

...and a number of channel markers:

"E" on 5455 and 5488 kHz. Not sure if this is a Russian channel marker.

"F" Vladivostok: 7000 (unusal freq)

"L" St. Petersburg: 3335.7 kHz(was defective one night when it sent
.-... instead of .-..)

"P" Kaliningrad: 3772 kHz.

"R" Izhevsk: 3195, 5465 kHz.

"V" Khiva: 3658 kHz.

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::: "PIP" STATIONS

I mentioned the pip on 14425 kHz before. Takashi sent me a note in which he says that the 14425 pip is in parallel with 5455 kHz and that it is in fact sending an inverted letter "Z" and pips. The letter that Takashi means is the Cyrillic letter "...--" so it looks like we are dealing with a Russian station here.

Another station sends occasional bursts and a pip on 10096.5//14316.5 kHz.

Both stations occasionally send hand keyed morse messages.

A third station, probably also from the East can be heard on 14050 kHz. This one transmits a pip every 2 seconds and "VVV" every 30 seconds.

Number four uses 14325 and comes from 14300 kHz. It transmits 2 pips per second.

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::: UNID STATIONS

- 5115 kHz: unid station logged by Igor on 24 Oct. at 1430 UTC. Possibly S.Korean Intel.

vvv vvv vvv cq cq cq de 815 815 815 qrk5 qtc k (repeated)
hr w33 bt
54172 65897 25896 83765 85421 89013 08463 35724 18423 64120
35257 95150 68120 79103 58769 20968 73426 51746 89724 54135
36275 80510 23980 70031 73096 81493 64724 32659 82596 87259
57249 72562 15018
rpt bt
54172 65897 25896 83765 85421 89013 08463 35724 18423 64120
35257 95150 68120 79103 58769 20968 73426 51746 89724 54135
36275 80510 23980 70031 73096 81493 64724 32659 82596 87259
57249 72562 15018
bt ar k tu va
nnnn

- 5847 kHz: hand sent signal checks (probably military) heard by Mark:
VVV P3 DE A5 HW K K K
S8 DE A5 HW K K K
VVV P3 DE A5 HW K K K
VVV P3 DE A5 HW K K K
VVV P3 DE A5 HW K K K
VVV //stops//silent and dropped at 0115 UTC.
- 14108 kHz: Cyrillic morse, no HAM. Freq is often used by Russian mil.
- 21360 kHz: 5FGs.

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::: CHINESE MILITARY STATIONS

"V BFR7 BFR7 BFR7 DE 4XML 4XML" was on 3380, 5756, 8303, 8455, 8457, 8257 and 10822 kHz this month.

"V LA5S LA5S LA5S DE NH8T NH8T" uses 4874, 5380, 7310, 8042 kHz.

"2SLC" is on 3330, 4440, 7074 kHz.

Usually two or three parallel frequencies are being used.

2RC8, 6PXJ, L4FC and YTDL went QRT completely and also L9CC was not reported this month.

<sources: Takashi and Tomonori>

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::: RUSSIAN / CIS MILITARY

Flash messages on 21.1 kHz:

"uuuuuuuuu xxx xxx rd1 rd1 76134 83629 slomqik 3050 0501"

"uuuuuuuuu xxx xxx rd1 rd1 86962 65913 proolifka 9615 5260"

Frequencies and callsigns on the various nets:

3248.5 NYV8
3831 S8BD, AJV5
3826 QBTH, ELJV, OW5S, 2XWC, O3HK, OZZI, NDZE, DDCA, AFV7,
IEE8, IN2Y, K8A2, JJ7N, S9SA, JWWR
3866 LDBO
4023 2BEA
7031 XXHA
7512 TZPN, 4RGS, 9HWL, LAWZ. QSX on 6831 kHz
14016 YREC, SOIF
14317 VJNA, MZLH

-0-0-0-0-0-0-0-0-0-0-

* OTHER MODES *

::: FAPSI [X06 / M42]

Only four logs:

5081 kHz msg at 1818 UTC on unid link.

8105 kHz Mazielka call at 2000 UTC, followed by a morse callup to
"URO" and a RTTY message on link 60047.

11460 kHz msg at 1637 UTC on link 60047.

14815 kHz Mazielka call at 1330 UTC.

I received an interesting note from Central Europe. Our friend heard the following on 12 September at 1055 UTC on 19331 kHz in Morse:

10:55 VVV WSK WSK WSK 1/3TT

10:58 NW NW 111TT TTT64 12345 12T18 T3TT9 = =
84864 7T412 1577T/ (morse machine)
..... 58251 33644 56845 = =
QRU QRU SK SK (manual morse)

What makes this log interesting is that it looks very much like the
diplo transmissions in the pre-FAPSI time when morse was often used.
Could this be related???

Here is a sample of an old morse transmission:

VVV PSN PSN PSN 2/245 VVV PSN PSN 2/245
NW NW NR 271 GR 135
followed by 5L or 5F groups

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::: JAMMERS

Only a few reports this month:
7000, 7010, 7028, 7030, 7040, 7070, 7074, 7082, 7092, 8800, 17510,
17909 kHz.

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::: VARIOUS STATIONS

XM: "Whales" on 5039 and 8085 kHz.

XSL: "Slot Machine", daily on 6417, 6445, 8588, 8703.5, 8313.5 kHz.

XSW: "Squeaky Wheel", daily on 3828.9 kHz.

S28: "Buzzer", daily on 4625 kHz.

S30: "Pip" on 3756 kHz.

-0-0-0-0-0-0-0-0-0-0-

* INTELLIGENCE NEWS *

::: USA / CUBA

Ana Belen Montes, was sentenced to 25 years in prison for spying for
Cuba. This was one of the rare cases in which numbers stations played
a role as she was listening to V02 transmissions from Cuba. She used
shortwave radio and pay phones to communicate with their handlers.

Use of shortwave radio has been mentioned in other cases as well, but in this case the numbers stations were actually stated.

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::: CHINA

The FBI has opened an attachÉ office for the FBI in Beijing. Chinese officials praised the opening of the FBI office, calling it a sign of success in the two countries' efforts to combat global terrorism and organized crime.

In the Washington Post, Richard Richter, president of the US Radio Free Asia, wrote that "Chinese authorities are tightening control" over news and information. "They're working harder to block the Internet and jam Radio Free Asia [RFA] and Voice of America [VOA]. China has also barred RFA from stationing any reporters on its territory and rebuffed VOA's bid to increase the size of its tiny Chinese staff."

The BBC World Service confirmed that for months, Chinese authorities have been banning its broadcasts in Mandarin, Uighur and Tibetan languages.

<source: China Reform Monitor No. 472, October 25, 2002>

-0-0-0-0-0-0-0-0-0-0-

* LOGS SECTION *

2548	M51	NR 37 0 01 22:40:20 2002 CW 01-10-02 2040 (RGA)
2680	M22	4XZ - Israeli navy Haifa. VVV marker + coded msgs CW 05-10-02 Sat 2117 (AB)
2743	E10	ULX2 USB 14-10-02 Mon 1731 (TI)
3025.0	M08a	(in progress - late start) CW 05-10-02 Sat 1000 (MS)
3025.0	M08a	(in progress - very weak signal) CW 31-10-02 Thu 1000
3195	MX	Channel marker "R", Izhevsk CW 05-10-02 Sat 2156 (AB)
3244.0	M08a	(in progress - late start) ID ----- 17313 CW 05-10-02 Sat 1000 (MS)
3292.0	V02a	In prog AM 01-10-02 Tue 0239 (BM)
3292.0	V02a	heavy QRN AM 01-10-02 Tue 0400 (BM)
3292.0	V02a	in prog AM 08-10-02 Tue 0203 (BM)
3292.0	V02a	In prog AM 08-10-02 Tue 0418 (BM)
3296.0	M08a	In prog; deep fades. CW 01-10-02 Tue 0402 (BM)
3335.7	MX	Channel marker "L", St. Petersburg CW 05-10-02 Sat 2200 (AB)
3335.7	MX	Channel marker "L", St. Petersburg with a defective beacon. Sends "-..." instead of "L" CW 07-10-02 Mon (AB)

3389.0 V02a faint; unable to copy ids AM 08-10-02 Tue 0100 (BM)
3415.0 E10 AM 27-10-02 Sun 2000 (LC2)
3415.0 E10 ART AM 27-10-02 Sun 2100 (LC2)
3415.0 E10 ART AM 27-10-02 Sun 2100 (LC2)
3415.0 E10 AM 27-10-02 Sun 2130 (LC2)
3415.0 E10 ART USB 31-10-02 Thu 2300 (GG)
3417.0 E10 in progress USB 01-10-02 Tue 2010 (CG2)
3640.0 E10 CI02 USB 01-10-02 Tue 1945 (CG2)
3658 MX Channel marker "V", Khiva CW 05-10-02 Sat 2203 (AB)
3756 S30 the Pip CW 07-10-02 Mon 2239 (AB)
3828.9 XSW Squeaky Wheel channel marker 07-10-02 Mon 2150 (AB)
3926.0 M08a ID 22901 75282 67361 AM 13-10-02 Sun 1000 (MS)
3926.0 M08a ID 15113 99063 40343 CW 20-10-02 Sun 1000 (MS)
3926.0 M08a ID 44531 32653 11341 CW 27-10-02 Sun 1000 (MS)
4012 M51 NR 62 S 26 20:17:10 2002 CW 26-09-02 1817 (RGA)
4016 M08 TX keying problem, intermittent callup. ID 83353
34731 11211 CW 05-10-02 0250 (JK1)
4016 S11a Cherta AM 04-09-02 2100 (GN)
4016.0 M08a CW 07-10-02 Mon 1000 (CS)
4017.0 V02a A 21451 11183 45863 AM 08-10-02 Tue 0300 (BM)
4017.0 V02a A 21454 84312 31173 - unusual ID ending in 4 AM
15-10-02 Tue 0300 (BM)
4026 M08 5LGs CW 15-10-02 0300 (RC)
4026 V02 Spanish numbers AM 05-10-02 0259 (RC)
4027.0 M08a ID 30651 70941 17313 (rpt of 1000z on 3244m) CW
05-10-02 Sat 1100 (MS)
4028.0 V02a in prog AM 11-10-02 Fri 0106 (BM)
4028.0 V02a A 45601 91642 60201 Repeat of 0400 4479 AM 11-10-02
Fri 0500 (BM)
4028.0 V02a in prog AM 12-10-02 Sat 0303 (BM)
4035.0 V02a in prog AM 10-10-02 Thu 0506 (BM)
4035.0 V02a missed callups AM 12-10-02 Sat 1000 (BM)
4165.0 E10 MIW2 continuous - out of time slot USB 02-10-02 Wed
1942 (CG2)
4173.0 M08a ID 30652 62871 70942 CW 06-10-02 Sun 1100 (MS)
4173.0 M08a ID 22901 75282 67361 (rpt of 1000z on 3926m) CW
13-10-02 Sun 1100 (MS)
4173.0 M08a ID 15113 99063 40343 (rpt of 1000z on 3926m) CW
20-10-02 Sun 1100 (MS)
4173.0 M08a ID 44531 32653 11341 (rpt of 1000z on 3926m) CW
27-10-02 Sun 1100 (MS)
4173.0 M08a (in progress) CW 30-10-02 Wed 1100 (MS)
4174.0 V02a In prog; very faint AM 10-10-02 Thu 0309 (BM)
4241 M22 4XZ - Israeli navy Haifa. VVV marker + coded msgs CW
05-10-02 Sat 2117 (AB)
4270.0 E10 PCD AM 28-10-02 Mon 1930 (LC2)
4270.0 E10 PCD AM 28-10-02 Mon 2000 (LC2)
4270.0 E10 PCD AM 28-10-02 Mon 2100 (LC2)

4328.0 M08a CW 07-10-02 Mon 1100 (CS)
 4328.0 M08a ID 59843 15601 65541 CW 13-10-02 Sun 1100 (MS)
 4328.0 M08a ID 22902 75283 67362 CW 14-10-02 Mon 1100 (BS3)
 4328.0 M08a ID 65652 96561 65543 CW 27-10-02 Sun 1100 (MS)
 4329.0 M08a (in progress - missed callup) CW 06-10-02 Sun 1100
 4329.0 M08a (QRM Voice station blocks) CW 20-10-02 Sun 1100 (MS)
 4331 M22 4XZ - Israeli navy Haifa. VVV marker + coded msgs CW
 05-10-02 Sat 2117 (AB)
 4451 M13 id 378 CW 07-10-02 2102 (RGA)
 4461 E10 FTJ2 USB 31-08-02 Sat 1802 (TI)
 4461.0 E10 AM 28-10-02 Mon 1930 (LC2)
 4461.0 E10 FTJ AM 28-10-02 Mon 2030 (LC2)
 4461.0 E10 in progress USB 31-10-02 Thu 2335 (GG)
 4468 357 333 83136 83136 (2x) 333 84326 84326 (2x) CW
 26-09-02 1829 (RGA)
 4470.0 E10 In progress, no id. AM 11-10-02 Fri 0300 (NOL)
 4478.0 M08a (in progress - early start) CW 05-10-02 Sat 1100 (MS)
 4478.0 M08a ID 76813 84002 71883 CW 31-10-02 Thu 1100 (MS)
 4479 V02 DGI AM 02-10-02 Wed 0300 (TPA)
 4479 V02 DGI 22552-29913-16071 AM 09-10-02 Wed (TPA)
 4479.0 V02a A 25942 20643 16172 AM 02-10-02 Wed 0300 (BM)
 4479.0 V02a in prog AM 09-10-02 Wed 0306 (BM)
 4479.0 V02a A 45601 91642 60201 AM 11-10-02 Fri 0400 (BM)
 4479.0 V02a in prog AM 16-10-02 Wed 0306 (BM)
 4479.0 V02a A 75891 91643 30205 - unusual ID ending in 5; M8a
 mixing in bg AM 18-10-02 Fri 0400 (BM)
 4485.0 M10 555x3 487x3 18 477x3 33 (R5) (//freq on 6758m) CW
 13-10-02 Sun 0210 (MS)
 4485.0 M10 555x3 649x3 24 296x3 36 (R5) (// freq on 6758m) CW
 19-10-02 Sat 0210 (MS)
 4485.0 M10 555x3 649x3 24 296x3 36 (R5) (// freq on 6763m) CW
 19-10-02 Sat 0410 (MS)
 4485.0 M10 555x3 793x3 28 481x3 34 (R5) (// freq on 6758m) CW
 27-10-02 Sun 0210 (MS)
 4485.0 M10 555x3 793x3 28 481x3 34 (R5) (// freq on 6763m - rpt
 of 0210z sked) CW 27-10-02 Sun 0410 (MS)
 4485.0 M10 555x3 793x3 28 481x3 34 (R5) (// freq on 6763m) CW
 30-10-02 Wed 0410 (MS)
 4485.0 M10 555x3 793x3 28 481x3 34 (R5) (QRM on // freq 6758m
 prevents copy there) CW 31-10-02 Thu 0210 (MS)
 4506 M08 5LGs CW 06-10-02 0302 (RC)
 4506.0 M08a In prog CW 02-10-02 Wed 0300 (BM)
 4506.0 M08a WMDDA WIAAR _____ CW 18-10-02 Fri 0403 (BM)
 4506.0 M08a ID 59333 57113 48892 CW 20-10-02 Sun 0300 (MS)
 4506.0 M08a ID 64581 63832 98412 CW 27-10-02 Sun 0300 (MS)
 4507.0 V02a A 45602 10393 70432 AM 12-10-02 Sat 1100 (BM)
 4557.7 MX Cluster beacon "D", Odessa CW 20-10-02 Sun 2000 (AB)
 4557.8 MX Cluster beacon "P", Kaliningrad CW 20-10-02 Sun 2000

4558 MX Cluster beacon "C", Moscow CW 20-10-02 Sun 2000 (AB)
 4558.2 MX Cluster beacon "F", Vladivostok CW 20-10-02 Sun 1203
 4558.2 MX F CW 20-10-02 Sun 1203 (TI)
 4559 M21 Russian Air Defense CW 20-10-02 Sun 1203 (TI)
 4559 M21 Russian Air Defense CW 20-10-02 Sun 1203 (TI)
 4560 E10 YHF USB 31-08-02 Sat 1731 (TI)
 4560 E10 YHF USB 14-10-02 Mon 1732 (TI)
 4560.0 E10 YHF2 USB 31-10-02 Thu 2300 (GG)
 4580 G04 21286 78721 33gr AM 03-10-02 Thu 2000 (HFD)
 4589.0 G22 186, nummer/gruppen unreadable LSB 17-10-02 Thu 2200
 (ASC)
 4625 S28 buzzer AM 31-08-02 Sat 1651 (TI)
 4625 S28 buzzer AM 09-09-02 Mon 1650 (TI)
 4625 S28 buzzer AM 24-09-02 Tue 1918 (TI)
 4625 S28 Buzzer AM 05-10-02 Sat 2211 (AB)
 4625 S28 buzzer AM 14-10-02 Mon 1556 (TI)
 4680 G04 21286 78721 33gr AM 03-10-02 Thu 2030 (HFD)
 4680.0 G04 Very strong signal USB 03-10-02 Thu 0020 (MZ)
 4680.0 G04 Very strong signal USB 03-10-02 Thu 2043 (MZ)
 4879.7 E10 in progress USB 01-10-02 Tue 2010 (CG2)
 4880 E10 ULX2 //6270 USB 31-08-02 Sat 1701 (TI)
 4880 E10 ULX USB 26-10-02 Sat 1631 (TI)
 4880.0 E10 ULX2 USB 27-10-02 Sun 2230 (GG)
 4880.0 E10 AM 28-10-02 Mon 2000 (LC2)
 4880.0 E10 2 msgs: 95 HXCV? / 10 ?FBLS (much noise) USB 29-10-02
 Tue 2300 (GG)
 4881.0 E10 heavy QRM; weak; sending message USB 02-10-02 Wed 0235
 (BM)
 5028 M10 555 555 555 304 304 304 18 5FGs = = 304 304 304 18
 000 CW 01-11-02 0415 (PP)
 5081 M42 FAPSI. Msg on unid link RTTY 31-10-02 1818 (PP)
 5091 E10 JSR USB 15-09-02 Sun 1632 (TI)
 5091 E10 JSR USB 16-09-02 Mon 1702 (TI)
 5091 E10 JSR USB 20-09-02 Fri 1732 (TI)
 5091 E10 JSR USB 01-10-02 Tue 1531 (TI)
 5091 E10 JSR2 USB 14-10-02 Mon 1702 (TI)
 5091 E10 JSR AM 30-10-02 1941 (PP)
 5091.0 E10 JSR 40 ARVEJ USB 02-10-02 Wed 1930 (CG2)
 5091.0 E10 a 79 group message USB 27-10-02 Sun 2203 (GG)
 5091.0 E10 a 79 group message USB 27-10-02 Sun 2203 (GG)
 5091.0 E10 JSR 57 AECEH USB 27-10-02 Sun 2230 (GG)
 5115 unid. Possibly S.Korean Intel. 815 + 5FGs. vvv vvv vvv
 cq cq cq de 815 815 815 qrk5 qtc k CW 24-10-02 1430
 5121 CH8N clg TR2F. Unid mil CW 31-10-02 1831 (PP)
 5129 M51 NR 84 S 30 22:27:15 2002 CW 30-09-02 2027 (RGA)
 5153.7 MX Cluster beacon "D", Odessa CW 20-10-02 Sun 1621 (AB)
 5153.7 MX Cluster beacon "D", Odessa CW 01-11-02 0439 (PP)
 5153.8 MX Cluster beacon "P", Kaliningrad CW 20-10-02 Sun 1621

5153.8 MX Cluster beacon "P", Kaliningrad CW 30-10-02 2010 (PP)
5153.9 MX Cluster beacon "S" CW 26-09-02 1838 (RGA)
5153.9 MX Cluster beacon "S", Arkhangelsk CW 06-10-02 Sun 1621
5153.9 MX Cluster beacon "S", Arkhangelsk CW 22-10-02 Thu 2100
5153.9 MX Cluster beacon "S", Arkhangelsk CW 01-11-02 0441 (PP)
5154 MX Cluster beacon "C" CW 26-09-02 1838 (RGA)
5154 MX Cluster beacon "C", Moscow CW 20-10-02 Sun 1621 (AB)
5154 MX Cluster beacon "C", Moscow CW 30-10-02 2010 (PP)
5159 M22 4XZ - Israeli navy Haifa. VVV marker + coded msgs CW
05-10-02 Sat 2117 (AB)
5159 M22 4XZ. Israeli navy Haifa. Vvv marker and 5LGs CW
30-10-02 2012 (PP)
5159.0 M22 4XZ CW 02-10-02 Wed 0239 (BM)
5170 E10 USB 31-08-02 Sat 1646 (TI)
5170 E10 VLB2 USB 31-08-02 Sat 1747 (TI)
5170 E10 VLB2 USB 16-09-02 Mon 1646 (TI)
5170 E10 VLB2 //6930 USB 08-10-02 Tue 1647 (TI)
5170 E10 VLB2 //6930 USB 14-10-02 Mon 1649 (TI)
5170 E10 VLB2 //6930 USB 26-10-02 Sat 1649 (TI)
5170 E10 VLB2 //6930 USB 26-10-02 Sat 1747 (TI)
5170 E10 VLB AM 31-10-02 1717 (PP)
5170.0 E10 VLB2 USB 01-10-02 Tue 1945 (CG2)
5170.0 E10 VLB2 USB 02-10-02 Wed 1945 (CG2)
5170.0 E10 fading; unable to copy id USB 08-10-02 Tue 0050 (BM)
5201 M21 Russian Air Defense. =992245??T????? CW 31-10-02 1945
(PP)
5201.0 M21 CW 03-10-02 Thu 1957 (ANEUR)
5210 G06 308 308 308 00000 AM 07-10-02 Mon 2000 (AB)
5210 G06 308/00000 AM 07-10-02 Mon 2000 (HFD)
5230 E10 USB 30-08-02 Fri 1518 (TI)
5230 E10 KPA2 //8025 USB 31-08-02 Sat 1717 (TI)
5230 E10 KPA2 //8025 USB 09-09-02 Mon 1618 (TI)
5230 E10 KPA2 USB 15-09-02 Sun 1617 (TI)
5230 E10 MIW2 USB 20-09-02 Fri 1717 (TI)
5230 E10 SYN2 //7690 USB 29-09-02 Sun 1647 (TI)
5230 E10 SYN 6POK AM 07-10-02 Mon 2004 (AB)
5230 E10 SYN 6POK AM 07-10-02 2004 (Pile)
5230 E10 SYN2 USB 08-10-02 Tue 1647 (TI)
5230 E10 SYN2 USB 14-10-02 Mon 1649 (TI)
5230 E10 SYN2 USB 26-10-02 Sat 1650 (TI)
5230 E10 SYN2 USB 26-10-02 Sat 1747 (TI)
5230 E10 SYN AM 31-10-02 1948 (PP)
5230.0 E10 SYN2 USB 01-10-02 Tue 1945 (CG2)
5230.0 E10 VLB2 USB 02-10-02 Wed 1945 (CG2)
5230.0 E10 spc1 msg "SYN6POK" USB 07-10-02 Mon 2027 (ANEUR)
5230.0 E10 SYN2; faint USB 08-10-02 Tue 0049 (BM)
5301 S17c 65021 AM 06-10-02 1250 (AF)
5301 S17C 99033, //8190 AM 12-10-02 Sat 1250 (HFD)

5301	S17C	98036, //8190 AM 13-10-02 Sun 1250 (HFD)
5301	S17C	73036, //8190 AM 15-10-02 Tue 1250 (HFD)
5339	E10	CI02 USB 31-08-02 Sat 1647 (TI)
5339	E10	CI02 USB 31-08-02 Sat 1748 (TI)
5339	E10	CI02 USB 15-09-02 Sun 1647 (TI)
5339	E10	CI02 USB 16-09-02 Mon 1647 (TI)
5339	E10	CI02 //7605.5 USB 14-10-02 Mon 1650 (TI)
5339	E10	MIW2 //7605.5 USB 14-10-02 Mon 1717 (TI)
5339.0	E10	MIW2 USB 01-10-02 Tue 1615 (CG2)
5339.0	E10	MIW2 continuous - out of time slot USB 02-10-02 Wed 1942 (CG2)
5339.0	E10	"MIW2" USB 07-10-02 Mon 2015 (ANEUR)
5339.5	E10	MIW2 USB 27-10-02 Sun 2317 (GG)
5384		V LA5S LA5S LA5S DE NH8T NH8T CW 14-10-02 Mon 1724 (TI)
5386		V LA5S LA5S LA5S DE NH8T NH8T CW 26-10-02 Sat 1711 (TI)
5407.5	M51	NR 62 S 26 20:17:10 2002 CW 26-09-02 1817 (RGA)
5413	M13	411 CW 05-10-02 Sat 2030 (HFD)
5417.0	V02a	in prog; extremely distorted AM 10-10-02 Thu 0703 (BM)
5417.0	V02a	in prog AM 11-10-02 Fri 0203 (BM)
5420	M08	in progress CW 23-10-02 0352 (RC)
5422	E03	77430 USB 05-10-02 1900 (TI26)
5422.0	E03	in progress USB 27-10-02 Sun 2223 (GG)
5435	E10	USB 30-08-02 Fri 1518 (TI)
5435	E10	ART USB 31-08-02 Sat 1703 (TI)
5435	E10	ART USB 31-08-02 Sat 1803 (TI)
5435	E10	ART USB 09-09-02 Mon 1632 (TI)
5435	E10	ART USB 16-09-02 Mon 1632 (TI)
5435	E10	ART USB 20-09-02 Fri 1702 (TI)
5435	E10	USB 29-09-02 Sun 1648 (TI)
5435	E10	USB 01-10-02 Tue 1532 (TI)
5435	E10	ART USB 08-10-02 Tue 1632 (TI)
5435	E10	ART USB 14-10-02 Mon 1632 (TI)
5435	E10	ART2 USB 14-10-02 Mon 1703 (TI)
5435	E10	USB 14-10-02 Mon 1733 (TI)
5435	E10	USB 26-10-02 Sat 1633 (TI)
5435.0	E10	ART USB 01-10-02 Tue 0131 (JSI)
5435.0	E10	in progress USB 01-10-02 Tue 2010 (CG2)
5435.0	E10	ART USB 31-10-02 Thu 2300 (GG)
5454		E CW 15-09-02 Sun 1612 (TI)
5455		E CW 26-10-02 Sat 1717 (TI)
5465	MX	Channel marker "R", Izhevsk CW 05-10-02 Sat 2156 (AB)
5470	M29	78/4: 2 0800=38638 CW 07-10-02 Mon 0600 (HFD)
5470	M29	78/4: 2 0800=38638 CW 07-10-02 Mon 1200 (HFD)
5476.5	M51	NR 84 S 30 22:27:15 2002 CW 30-09-02 2027 (RGA)
5488		E CW 26-10-02 Sat 1719 (TI)
5570	M29	78/4: 2 0800=38638 CW 07-10-02 Mon 0630 (HFD)
5570	M29	78/4: 2 0800=38638 CW 07-10-02 Mon 1230 (HFD)
5715	V24	AM 01-10-02 Tue 1503 (TI)

5746 E03 69390 USB 03-10-02 2100 (TI26)
5746 E03 69390 USB 04-10-02 2200 (TI26)
5746 E03 LP. Id 87527 USB 24-10-02 Thu 2100 (AB)
5756 V BFR7 BFR7 BFR7 de 4XML 4XML CW 26-10-02 Sat 1742 (TI)
5758.0 M08a In prog; heavy QRM CW 02-10-02 Wed 0207 (BM)
5758.0 M08a ID 39531 54672 11212 CW 06-10-02 Sun 0200 (MS)
5758.0 M08a in prog; QRM from swbc stn CW 09-10-02 Wed 0212 (BM)
5762.0 V02a screeching carrier; A 30202 11623 33121 AM 12-10-02 Sat 0400 (BM)
5763.0 V02a very faint; screeching carrier AM 12-10-02 Sat 0200
5772 S06 null msg AM 03-09-02 Tue 1900 (GN)
5782 M40 641 CW 17-09-02 1636 (IB)
5820 E10 YHF2 USB 31-08-02 Sat 1703 (TI)
5820 E10 YHF //10648 USB 31-08-02 Sat 1804 (TI)
5820 E10 YHF2 USB 09-09-02 Mon 1703 (TI)
5820 E10 YHF USB 15-09-02 Sun 1632 (TI)
5820 E10 YHF2 USB 16-09-02 Mon 1703 (TI)
5820 E10 YHF2 USB 20-09-02 Fri 1703 (TI)
5820 E10 YHF USB 01-10-02 Tue 1533 (TI)
5820 E10 YHF USB 08-10-02 Tue 1633 (TI)
5820 E10 YHF USB 14-10-02 Mon 1633 (TI)
5820 E10 USB 26-10-02 Sat 1633 (TI)
5820 E10 YHF2 USB 26-10-02 Sat 1703 (TI)
5820.0 E10 YHF 34 ZHCAG USB 02-10-02 Wed 1930 (CG2)
5847.0 P3 de A5 and also S8 de A5 (probably not numbers, went silent, no traffic) CW 13-10-02 Sun 0105 (MS)
5876.0 M13d 303 (R5) BT 273 1.7 BT (signal extremely weak tonight) CW 06-10-02 Sun 0230 (MS)
5883.0 V02a (in progress - transmission garbled) AM 05-10-02 Sat 0500 (MS)
5883.0 V02a A 30202 11623 33121; repeat of 0400 5762kHz AM 12-10-02 Sat 0500 (BM)
6215 V24 AM 09-09-02 Mon 1607 (TI)
6215 V24 AM 10-09-02 Tue 1500 (TI)
6215 V24 AM 10-09-02 Tue 1600 (TI)
6215 V24 AM 15-09-02 Sun 1600 (TI)
6261 M01 463-63#/36=21125 CW 12-10-02 Sat 1500 (HFD)
6270 E10 ULX2 //4880 USB 31-08-02 Sat 1703 (TI)
6270 E10 ULX2 USB 09-09-02 Mon 1603 (TI)
6270 E10 ULX USB 15-09-02 Sun 1633 (TI)
6270 E10 ULX USB 16-09-02 Mon 1632 (TI)
6270 E10 USB 29-09-02 Sun 1648 (TI)
6270 E10 ULX2 USB 29-09-02 Sun 1702 (TI)
6270 E10 ULX USB 01-10-02 Tue 1504 (TI)
6270 E10 ULX2 USB 01-10-02 Tue 1533 (TI)
6270 E10 ULX2 USB 14-10-02 Mon 1603 (TI)
6270 E10 USB 14-10-02 Mon 1633 (TI)
6270 E10 USB 26-10-02 Sat 1633 (TI)

6270	E10	ULX2 USB 26-10-02 Sat 1703 (TI)
6306	M13	261 CW 07-10-02 Mon 2000 (HFD)
6370	E10	MIW2 //8127 USB 30-08-02 Fri 1519 (TI)
6370	E10	MIW2 //8127 USB 31-08-02 Sat 1718 (TI)
6370	E10	MIW2 USB 09-09-02 Mon 1717 (TI)
6370	E10	MIW2 USB 16-09-02 Mon 1617 (TI)
6370	E10	KPA2 USB 20-09-02 Fri 1718 (TI)
6370	E10	KPA2 //9270 USB 29-09-02 Sun 1617 (TI)
6370	E10	KPA2 USB 06-10-02 Sun 1517 (TI)
6370	E10	KPA2 //7445 USB 08-10-02 Tue 1634 (TI)
6370	E10	KPA2 //7445 9270 USB 14-10-02 Mon 1617 (TI)
6370	E10	KPA2 //7445 9270 USB 14-10-02 Mon 1718 (TI)
6370	E10	KPA2 //7445 9270 USB 18-10-02 Fri 1718 (TI)
6370.0	E10	KPA2 USB 01-10-02 Tue 1615 (CG2)
6379	M22	4XZ - Israeli navy Haifa. VVV marker + coded msgs CW 05-10-02 Sat 2117 (AB)
6379	M22	4XZ - Israeli navy Haifa CW 26-10-02 Sat 1656 (TI)
6417	XSL	Slot Machine USB 09-09-02 Mon 1626 (TI)
6417	XSL	Slot Machine USB 15-09-02 Sun 1611 (TI)
6417	XSL	Slot Machine USB 20-09-02 Fri 1721 (TI)
6417	XSL	Slot Machine USB 08-10-02 Tue 1638 (TI)
6417	XSL	Slot Machine USB 26-10-02 Sat 1658 (TI)
6428	E10	ABC USB 30-08-02 Fri 1519 (TI)
6428	E10	ABC USB 31-08-02 Sat 1648 (TI)
6445	XSL	Slot Machine USB 09-09-02 Mon 1628 (TI)
6445	XSL	Slot Machine USB 20-09-02 Fri 1722 (TI)
6445	XSL	Slot Machine USB 08-10-02 Tue 1640 (TI)
6485	E03	77430 USB 02-10-02 1600 (TI26)
6485	E03	77430 USB 05-10-02 1900 (TI26)
6485.0	E03	in progress USB 27-10-02 Sun 2223 (GG)
6498	E10	PCD USB 30-08-02 Fri 1503 (TI)
6498	E10	PCD //8805 USB 31-08-02 Sat 1733 (TI)
6498	E10	PCD2 USB 09-09-02 Mon 1603 (TI)
6498	E10	PCD USB 09-09-02 Mon 1633 (TI)
6498	E10	PCD USB 15-09-02 Sun 1633 (TI)
6498	E10	PCD USB 16-09-02 Mon 1603 (TI)
6498	E10	PCD USB 16-09-02 Mon 1633 (TI)
6498	E10	PCD2 USB 16-09-02 Mon 1704 (TI)
6498	E10	PCD2 USB 20-09-02 Fri 1703 (TI)
6498	E10	PCD USB 20-09-02 Fri 1733 (TI)
6498	E10	PCD2 USB 29-09-02 Sun 1703 (TI)
6498	E10	PCD USB 01-10-02 Tue 1534 (TI)
6498	E10	PCD //8805 USB 14-10-02 Mon 1734 (TI)
6498	E10	PCD //8805 USB 26-10-02 Sat 1733 (TI)
6539	V21	Cuban Babbler USB 25-09-02 1235 (ALS)
6545	E18	269 nr 183 gc 20 = 47770 USB 11-09-02 2100 (GN)
6545	E18	269 Nr 184 grp 17 58727... 000 AM 09-10-02 Wed 2100
6545.0	E18	269 number 184 group 17 LSB 10-10-02 Thu 2100 (ASC)

6724	M13	284 CW 05-10-02 Sat 2000 (HFD)
6724	M13	284 CW 18-10-02 Fri 2000 (HFD)
6758	M10	555*3 CW 03-10-02 Thu 0212 (TPA)
6758	M10	555*3 CW 03-10-02 Thu 0214 (TPA)
6758	M10	555*3 CW 08-10-02 Tue 0230 (TPA)
6758	M10	555*3 CW 10-10-02 Thu 0212 (TPA)
6758	M10	555*3 CW 13-10-02 Sun 0210 (TPA)
6758	M10	555*3 CW 14-10-02 Tue 0211 (TPA)
6758.0	M10	555x3 487x3 18 477x3 33 (R5) (//freq on 4485m) CW 13-10-02 Sun 0210 (MS)
6758.0	M10	555x3 649x3 24 296x3 36 (R5) (// freq on 4485m) CW 19-10-02 Sat 0210 (MS)
6758.0	M10	555x3 793x3 28 481x3 34 (R5) (// freq on 4485m) CW 27-10-02 Sun 0210 (MS)
6763.0	M10	555x3 649x3 24 296x3 36 (R5) (// freq on 4485m) CW 19-10-02 Sat 0410 (MS)
6763.0	M10	555x3 793x3 28 481x3 34 (R5) (// freq on 4485m - rpt of 0210z sked) CW 27-10-02 Sun 0410 (MS)
6763.0	M10	555x3 793x3 28 481x3 34 (R5) (// freq on 4485m) CW 30-10-02 Wed 0410 (MS)
6767.0	M08a	ID 30261 03511 21271 CW 20-10-02 Sun 1200 (MS)
6767.0	M08a	ID 62833 70801 64582 CW 27-10-02 Sun 1200 (MS)
6768.0	V02a	A 92533 45862 88232 AM 10-10-02 Thu 0400 (BM)
6768.0	V02a	A 13252 93033 60632 AM 19-10-02 Sat 0100 (BM)
6796.0	M08a	ID 54672 81763 39531 (rpt of 1100z on 8136m) CW 05-10-02 Sat 1200 (MS)
6796.0	M08a	in tfc weak / qrn CW 14-10-02 Mon 1300 (BS3)
6797.0	M08a	CW 07-10-02 Mon 1300 (CS)
6797.0	V02a	in prog AM 10-10-02 Thu 0500 (BM)
6805	G06	308/00000 AM 07-10-02 Mon 1900 (HFD)
6810.0	S06	hight qrm AM 23-10-02 Wed 0020 (LC2)
6825.0	M08a	ID 28522 70804 66043 CW 31-10-02 Thu 1200 (MS)
6826.0	V02	Very weak signal AM 07-10-02 Mon 0905 (MA)
6835	G06	null msg AM 02-09-02 Mon 2000 (GN)
6854.0	M08a	(in progress) CW 30-10-02 Wed 1200 (MS)
6855	V02	DGI 92533-45872-2 AM 07-10-02 Mon (TPA)
6855	V02	DGI 24171-32162-88232 AM 13-10-02 Sun (TPA)
6855.0	V02a	In prog AM 10-10-02 Thu 0306 (BM)
6866.0	M08a	CW 07-10-02 Mon 1400 (CS)
6912	E10	CI02 USB 08-10-02 Tue 1645 (TI)
6912	E10	CI02 AM 12-10-02 0145 (AL)
6912.0	E10	CI02 USB 01-10-02 Tue 1945 (CG2)
6920	M13	254 CW 16-10-02 Wed 2100 (HFD)
6921.0	M13	254 (R5) BT 227 2. BT CW 16-10-02 Wed 2100 (MS)
6930	E10	VLB2 USB 29-09-02 Sun 1645 (TI)
6930	E10	VLB2 //5170 USB 08-10-02 Tue 1645 (TI)
6930	E10	VLB USB 13-10-02 Sun 2115 (TPA)
6930	E10	VLB2 //5170 USB 14-10-02 Mon 1647 (TI)

6930	E10	VLB2 //5170 USB 26-10-02 Sat 1647 (TI)
6930	E10	VLB2 //5170 USB 26-10-02 Sat 1745 (TI)
6930.0	E10	VLB2 USB 01-10-02 Tue 1945 (CG2)
6930.0	E10	VLB2 USB 08-10-02 Tue 0048 (BM)
6934	E07	913/0 AM 02-10-02 Wed 0510 (HFD)
6945	S17	AM 01-10-02 0150 (CS + BM)
6945	S17	numbers. Constant carrier. Ends with Konec Konec AM 08-10-02 1740 (MG)
6945	S17d	555 AM 15-10-02 Tue (TPA)
6945	S17d	555 AM 16-10-02 Wed (TPA)
6945.0	S10d	ID tentative; very weak USB 02-10-02 Wed 0150 (BM)
6945.0	S10d	in prog USB 16-10-02 Wed 0150 (BM)
6945.0	S17	S17 in prog USB 01-10-02 Tue 0155 (BM)
6945.0	S17c	Wow, first time heard, sounded like an open mike at the end of tx before carrier AM 01-10-02 Tue 0152 (CS)
6945.0	S17c	In progress, suppressed LSB; a new one for me as well AM 01-10-02 Tue 0156 (GH)
6950	E05	CIA missed calls USB 13-10-02 Sun 2112 (TPA)
6950	E05	id 256 USB 20-10-02 Sun 2100 (AB)
6950	E05	id 285 USB 24-10-02 Thu 2100 (AB)
6950.0	E05	274 count 215 //7585 USB 06-10-02 Sun 2100 (ASC)
6950.0	E05	255 count 131 //7585 USB 10-10-02 Thu 2100 (ASC)
6950.0	E05	id 255 //7585 USB 13-10-02 Sun 2100 (ASC)
6950.0	E05	in progress //7585 USB 15-10-02 Tue 2110 (ASC)
6950.0	E05	256 count 199 //7585 USB 17-10-02 Thu 2100 (ASC)
6950.0	E05	in progress //7585 USB 19-10-02 Sat 2130 (ASC)
6959	E03	48146 //8464 11545 USB 09-09-02 Mon 1706 (TI)
6959	E03	62690 //8464 USB 16-09-02 Mon 1707 (TI)
6959	E03	56931 USB 02-10-02 2000 (TI26)
6959	E03	56931 USB 03-10-02 1900 (TI26)
6959	E03	97729 USB 03-10-02 2000 (TI26)
6959	E03	69390 USB 03-10-02 2100 (TI26)
6959	E03	97729 USB 04-10-02 2100 (TI26)
6959	E03	69390 USB 04-10-02 2200 (TI26)
6959	E03	56931 USB 05-10-02 2100 (TI26)
6959	E03	97729 USB 05-10-02 2200 (TI26)
6959	E03	MI6 97729 USB 05-10-02 Sat 2208 (TPA)
6959	E03	MI6 07652 USB 06-10-02 Sat 2105 (TPA)
6959	E03	MI6 69390 USB 10-10-02 Thu 2208 (TPA)
6959	E03	69390 //8464 USB 14-10-02 Mon 1704 (TI)
6959	E03	LP. Id 87527 USB 24-10-02 Thu 2100 (AB)
6960	E05	in progress USB 24-10-02 Wed 2213 (AB)
6970	E10	in progress AM 12-10-02 2307 (AL)
6970.0	E05	in progress //8110 USB 15-10-02 Tue 2110 (ASC)
6970.0	E05	USB 19-10-02 Sat 2126 (AJ)
6970.0	E05	in progress //8110 USB 19-10-02 Sat 2130 (ASC)
6974	M13	417 CW 12-10-02 Sat 1900 (HFD)
6979.5	M21	Russian Air Defense CW 20-10-02 Sun 1201 (TI)

6982.0 M08a AM 07-10-02 Mon 1200 (CS)
6982.0 M08a ID 98062 ----- 96.23 CW 13-10-02 Sun 1300 (MS)
6982.0 M08a ID 98063 49192 96424 CW 14-10-02 Mon 1200 (BS3)
6986 E10 in progress AM 05-10-02 1935 (RGA)
7038.7 MX Cluster beacon "D", Odessa CW 20-10-02 Sun 1616 (AB)
7038.8 MX Cluster beacon "P", Kaliningrad CW 20-10-02 Sun 1057
7039 MX Cluster beacon "C", Moscow CW 20-10-02 Sun 1609 (AB)
7039.4 MX M CW 20-10-02 Sun 1146 (TI)
7039.4 MX Cluster beacon "M", Magadan CW 20-10-02 Sun 1146 (TI)
7039.4 MX M CW 21-10-02 Mon 1739 (TI)
7039.4 MX M CW 26-10-02 Sat 1643 (TI)
7337 E03 28733 USB 02-10-02 2100 (TI26)
7337 E03 28733 USB 03-10-02 2200 (TI26)
7337 E03 MI6 86297 USB 09-10-02 Wed 2204 (TPA)
7337.0 E03 in progress USB 01-10-02 Tue 2010 (CG2)
7445 E10 KPA2 //9270 10970 USB 01-10-02 Tue 1517 (TI)
7445 E10 KPA2 //6369 USB 08-10-02 Tue 1630 (TI)
7445 E10 KPA2 AM 11-10-02 1815 (PP1)
7445 E10 KPA2 //9270 6370 USB 14-10-02 Mon 1615 (TI)
7445 E10 KPA2 //6370 9270 USB 14-10-02 Mon 1715 (TI)
7445 E10 KPA2 //9270 6370 USB 18-10-02 Fri 1715 (TI)
7445.0 E10 KPA2 USB 01-10-02 Tue 1615 (CG2)
7472.0 V02a In prog AM 17-10-02 Thu 0603 (BM)
7519.0 M08a CW 07-10-02 Mon 1300 (CS)
7519.0 M08a in tfc weak / qrn CW 14-10-02 Mon 1300 (BS3)
7555 V02 DGI 69852-31323-96433 AM 06-10-02 Sun 0300 (TPA)
7555.0 M08? In progress. Cut numbers, STRONG signal, about 15 WPM.
AM signal, 1000 Hz MCW ton MCW 07-10-02 Mon 0818 (BD)
7555.0 V02a too faint to copy ids AM 06-10-02 Sun 0300 (BM)
7555.0 V02a ID 53771 11176 00752 YL/SS (Note the use of "6" in
second message number) AM 20-10-02 Sun 0300 (MS)
7555.0 V02a ID 53772 39443 00753 (YL/SS) AM 27-10-02 Sun 0300 (MS)
7580.0 M08 In progress. Very strong signal. CW 08-10-02 Tue 0824
7583.0 V02a AM 07-10-02 Mon 1000 (CS)
7583.0 V02a V2a in prog; fast cinco AM 14-10-02 Mon 1003 (BM)
7585 E05 in progress AM 30-09-02 2126 (RGA)
7585 E05 id 256 USB 20-10-02 Sun 2100 (AB)
7585 E05 id 285 USB 24-10-02 Thu 2100 (AB)
7585.0 E05 255 count 131 //6950 USB 10-10-02 Thu 2100 (ASC)
7585.0 E05 id 255 //6950 USB 13-10-02 Sun 2100 (ASC)
7585.0 E05 in progress //6950 USB 15-10-02 Tue 2110 (ASC)
7585.0 E05 256 count 199 //6950 USB 17-10-02 Thu 2100 (ASC)
7585.0 E05 in progress //6950 USB 19-10-02 Sat 2130 (ASC)
7587.0 E05 274 count 215 //6950 USB 06-10-02 Sun 2100 (ASC)
7605 E10 CI02 //5339.5 USB 14-10-02 Mon 1648 (TI)
7605 E10 MIW2 //5339.5 USB 14-10-02 Mon 1715 (TI)
7605 E10 MIW2 USB 18-10-02 Fri 1716 (TI)
7605.0 E10 MIW2 continuous - out of time slot USB 02-10-02 Wed

1942 (CG2)

7605.5	E10	MIW2 USB 27-10-02 Sun 2317 (GG)
7610	S06	348/00000 AM 12-10-02 Sat 1600 (HFD)
7690	E10	SYN2 //5230 USB 29-09-02 Sun 1649 (TI)
7690	E10	SYN 6POK AM 07-10-02 Mon 2004 (AB)
7690.0	E10	SYN2 USB 02-10-02 Wed 0249 (BM)
7755	E03	77430 USB 02-10-02 1600 (TI26)
7760	E10	USB 06-10-02 Sun 1515 (TI)
7862.0	V02	S9+20 carrier, rendered completely unintelligible by bad audio (overmod, clippin AM 06-10-02 Sun 1100 (MA)
7862.0	V02	ATTENCION 962 08 (YL/SS) AM 13-10-02 Sun 1100 (MS)
7862.0	V02	ID 962 08 YL/SS AM 20-10-02 Sun 1100 (MS)
7863.0	V02	tentative id as V2; very distorted audio AM 06-10-02 Sun 1112 (BM)
7863.0	V02a	(in progress - YL/SS) AM 06-10-02 Sun 1100 (MS)
7885.0	V02?	very strong - in process AM 20-10-02 Sun 0002 (MNH)
7887	E03	in progress USB 30-09-02 2121 (RGA)
7887.0	V02a	(in progress - YL/SS) AM 06-10-02 Sun 0200 (MS)
7887.0	V02a	A 69852 31323 96433 AM 06-10-02 Sun 0200 (BM)
7887.0	V2a?	Strong on my dx-440 (which is rare) - found at 0217 utc - still in progress. AM 19-10-02 Sat 0217 (LE)
7889.0	M08a	In prog CW 05-10-02 Sat 1436 (BM)
7913.5	M21	Russian Air Defense = 101299056345510 CW 21-09-02 1004 (DW)
7918	E10	YHF USB 30-08-02 Fri 1501 (TI)
7918	E10	YHF //10648 USB 09-09-02 Mon 1616 (TI)
7918	E10	YHF USB 15-09-02 Sun 1602 (TI)
7918	E10	YHF //10648 USB 16-09-02 Mon 1615 (TI)
7918	E10	USB 01-10-02 Tue 1517 (TI)
7918	E10	YHF //10648 USB 14-10-02 Mon 1601 (TI)
7918.0	E10	in progress USB 01-10-02 Tue 1611 (CG2)
7918.0	E10	YHF 34 ZHCAG USB 02-10-02 Wed 1930 (CG2)
7931	XP	0-msg 15-10-02 Tue 2020 (HFD)
7931	XP	nu1 msg AM 24-10-02 Thu 2020 (AB)
7960	M23	sends "3100" CW 01-09-02 0204 (RC)
7977.0		repeating 757; then tfc; down at 0300 CW 02-10-02 Wed 0251 (BM)
8010.0	V02a	in prog at 0600; missed callups AM 09-10-02 Wed 0600
8010.0	V02a	A 99803 26031 82673 AM 11-10-02 Fri 0603 (BM)
8010.0	V02a	A 31174 _____; unusual ID ending in 4 AM 16-10-02 Wed 0603 (BM)
8010.0	V02a	A 31176 38911 88591 - id ending in 6 AM 18-10-02 Fri 0600 (BM)
8010.0	V02a	A 88054 46474 47692 AM 30-10-02 Wed 0600 (BM)
8025	E10	KPA2 //5230 USB 31-08-02 Sat 1716 (TI)
8025	E10	KPA2 //5230 USB 09-09-02 Mon 1616 (TI)
8085	E05	in progress AM 05-10-02 1945 (EB)
8085.0	E05	256 count 199 //9219 USB 19-10-02 Sat 1900 (ASC)

8086 E03 id 273 USB 26-09-02 1900 (JS3)
8097.0 M08a in prog CW 06-10-02 Sun 0727 (BM)
8097.0 V02a A 31171 88162 81491 AM 12-10-02 Sat 0600 (BM)
8097.0 V02a In prog AM 17-10-02 Thu 0609 (BM)
8103 E07 913/0 AM 02-10-02 Wed 0530 (HFD)
8103 M22 4XZ - Israeli navy Haifa CW 18-09-02 1555 (DW)
8103 M22 4XZ - Israeli navy Haifa. VVV marker + coded msgs CW
05-10-02 Sat 2117 (AB)
8103 M22 4XZ - Israeli navy Haifa CW 14-10-02 1637 (DW)
8105 X06/M Maziela call followed by cw callup to "URO" and RTTY
42 msg on link 60047 02-10-02 2000 (JS)
8110.0 E05 in progress //6970 USB 15-10-02 Tue 2110 (ASC)
8110.0 E05 in progress //6970 USB 19-10-02 Sat 2130 (ASC)
8127 E10 MIW2 //6370 USB 30-08-02 Fri 1516 (TI)
8127 E10 MIW2 //6370 USB 31-08-02 Sat 1716 (TI)
8127 E10 MIW2 USB 09-09-02 Mon 1617 (TI)
8127 E10 MIW2 USB 09-09-02 Mon 1716 (TI)
8136.0 M08a ID ----- 81763 39531 (in progress) CW 05-10-02 Sat
8136.0 M08a (in progress - missed calls) CW 13-10-02 Sun 1000 (MS)
8136.0 M08a ID 14473 97902 78152 CW 20-10-02 Sun 1000 (MS)
8136.0 M08a ID 04093 03402 23423 CW 27-10-02 Sun 1000 (MS)
8170 G06 null msg AM 02-09-02 Mon 1900 (GN)
8190 S17C 11038 AM 01-10-02 Tue 1250 (HFD)
8190 S17C 48021 AM 02-10-02 Wed 1250 (HFD)
8190 S17c 44025 AM 03-10-02 1250 (AF)
8190 S17C 11036 AM 04-10-02 Fri 1250 (HFD)
8190 S17C 63021 AM 05-10-02 Sat 1250 (HFD)
8190 S17c 555 555 555 313 313 313 05 etc... 65021 AM 06-10-02
Sun 1250 (AB)
8190 S17C 65021 AM 06-10-02 Sun 1250 (HFD)
8190 S17c 65021 AM 06-10-02 1250 (AF)
8190 S17C 99033, //5301 AM 12-10-02 Sat 1250 (HFD)
8190 S17C 98036, //5301 AM 13-10-02 Sun 1250 (HFD)
8190 S17C 73036, //5301 AM 15-10-02 Tue 1250 (HFD)
8190.0 S17c USB 19-10-02 Sat 1250 (ASC)
8253.0 V02 A ???/?? 02/54 AM 16-10-02 Wed 1003 (BM)
8300.0 V13 flute interval; YL/CC 4fgx2 USB 08-10-02 Tue 1500 (BM)
8300.0 V13 very clear USB 12-10-02 Sat 1400 (BM)
8313.5 XSL Slot Machine USB 16-09-02 Mon 1642 (TI)
8313.5 XSL USB 05-10-02 Sat 1432 (BM)
8313.5 XSL Slot Machine 21-10-02 Mon 2149 (AB)
8455 V BFR7 BFR7 BFR7 de 4XML 4XML CW 01-10-02 1832 (RGA)
8457 V BFR7 BFR7 BFR7 de 4XML 4XML CW 13-10-02 2101 (DW)
8464 E03 48146 //11545 6959 USB 09-09-02 Mon 1701 (TI)
8464 E03 USB 15-09-02 Sun 1616 (TI)
8464 E03 62690 //6959 USB 16-09-02 Mon 1701 (TI)
8464 E03 //11545 USB 29-09-02 Sun 1616 (TI)
8464 E03 77430 USB 01-10-02 Tue 1501 (TI)

8464	E03	07657 USB 03-10-02 1600 (TI26)
8464	E03	28733 USB 03-10-02 2200 (TI26)
8464	E03	77430 USB 05-10-02 1900 (TI26)
8464	E03	69390 //6959 USB 14-10-02 Mon 1701 (TI)
8464.0	E03	in progress USB 27-10-02 Sun 2223 (GG)
8494.7	MX	Cluster beacon "D", Odessa CW 20-10-02 Sun 1054 (AB)
8494.8	MX	Cluster beacon "P", Kaliningrad CW 20-10-02 Sun 0942
8495	MX	Cluster beacon "C", Moscow CW 20-10-02 Sun 1054 (AB)
8495	MX	C CW 21-10-02 Mon 1741 (TI)
8495.2	MX	Cluster beacon "F", Vladivostok CW 20-10-02 Sun 1134
8495.2	MX	F CW 20-10-02 Sun 1134 (TI)
8495.2	MX	F CW 24-10-02 Thu 1643 (TI)
8495.2	MX	F CW 26-10-02 Sat 1639 (TI)
8495.4	MX	M CW 20-10-02 Sun 1134 (TI)
8495.4	MX	Cluster beacon "M", Magadan CW 20-10-02 Sun 1134 (TI)
8495.4	MX	M CW 21-10-02 Mon 1741 (TI)
8495.4	MX	M CW 24-10-02 Thu 1643 (TI)
8495.4	MX	M CW 26-10-02 Sat 1639 (TI)
8500.0		Unid Station, possibly vocoder. Freq not exact, analog readout on my radio. Stro AM 20-10-02 Sun 2300 (DPS)
8588	XSL	Slot Machine 21-10-02 Mon 2149 (AB)
8588.0	XSL	USB 05-10-02 Sat 1434 (BM)
8588.0	XSL	Japanese PSK modem USB 08-10-02 Tue 1507 (BM)
8588.0	XSL	Japanese PSK USB 12-10-02 Sat 1415 (BM)
8588.0	XSL	Japanese PSK USB 19-10-02 Sat 1330 (BM)
8588.0	XSL	Japanese PSK USB 30-10-02 Wed 0620 (BM)
8641	E10	CI02 USB 26-10-02 Sat 1648 (TI)
8641	E10	CI02 USB 26-10-02 Sat 1746 (TI)
8676.0	V02	A 616/05. Horrible audio. Poss FM mode?? AM 02-10-02 Wed 0210 (BM)
8703.5	XSL	Japanese PSK modem USB 08-10-02 Tue 1510 (BM)
8703.5	XSL	Japanese PSK USB 12-10-02 Sat 1415 (BM)
8703.5	XSL	Slot Machine 21-10-02 Mon 2149 (AB)
8749.0	V02	A 979/05 AM 13-10-02 Sun 0400 (BM)
8805	E10	PCD2 USB 31-08-02 Sat 1701 (TI)
8805	E10	PCD //6498 USB 31-08-02 Sat 1731 (TI)
8805	E10	PCD2 USB 09-09-02 Mon 1701 (TI)
8805	E10	PCD2 USB 29-09-02 Sun 1701 (TI)
8805	E10	PCD2 USB 14-10-02 Mon 1701 (TI)
8805	E10	PCD //6498 USB 14-10-02 Mon 1732 (TI)
8805	E10	PCD2 USB 26-10-02 Sat 1701 (TI)
8805	E10	PCD //6498 USB 26-10-02 Sat 1731 (TI)
8805.0	E10	in progress USB 03-10-02 Thu 1437 (CG2)
8909.0	V02	In prog; ID based on diff voice than V2a AM 08-10-02 Tue 0606 (BM)
8909.0	V02	in prog; ???/?? 03/52 AM 15-10-02 Tue 0600 (BM)
8909.0	V02	At 0554, siren/warbling sound; 663/06 584/08 06/59 08/52 two callup/repeat twice AM 29-10-02 Tue 0600

8909.0 V02a xmission started with sweeping signal. After
attention, did a 2-group than into AM 01-10-02 Tue
8975.0 V02 ???/?? 05/53 in p4ot AM 10-10-02 Thu 1000 (BM)
8975.0 V02 In prog AM 17-10-02 Thu 1003 (BM)
9040 XP msg 11-10-02 Fri 2050 (HFD)
9060.0 5 fig groups male voice unknown language AM 27-10-02
Sun 1540 (CUK)
9063.0 V02a V2a starts w/o callups after music (in english) on
same tape plays?! AM 11-10-02 Fri 0703 (BM)
9063.0 V02a A 31174 -----; unusual ID ending in 4; repeat
0600/8010kHz AM 16-10-02 Wed 0703 (BM)
9063.0 V02a A 31176 38911 88591 - id ending in 6; repeat of
0600/8010kHz AM 18-10-02 Fri 0700 (BM)
9063.0 V02a In progress - weak signal AM 30-10-02 Wed 0720 (CUK)
9090 E05 CIA 286 USB 08-10-02 Tue 2200 (TPA)
9090 E05 CIA 286 gr 142 USB 09-10-02 Wed 2205 (TPA)
9090 E05 in progress USB 24-10-02 Wed 2213 (AB)
9124.0 M13 458 (R5) BT 217 19 BT CW 14-10-02 Mon 2200 (MS)
9130 E10 EZI //13533 USB 31-08-02 Sat 1731 (TI)
9130 E10 EZI USB 31-08-02 Sat 1801 (TI)
9130 E10 EZI //13533 USB 20-09-02 Fri 1731 (TI)
9130 E10 in progress AM 01-10-02 1849 (RGA)
9130 E10 EZI //13533 USB 14-10-02 Mon 1732 (TI)
9130 E10 EZI //13533 USB 26-10-02 Sat 1731 (TI)
9130.0 E10 in prog w/tfc USB 01-10-02 Tue 0214 (BM)
9130.0 E10 EZI group 58 USB 01-10-02 Tue 0231 (BM)
9130.0 E10 in progress USB 01-10-02 Tue 2010 (CG2)
9152.0 M08a ID 19421 53752 82932 CW 05-10-02 Sat 1200 (MS)
9153.0 M08a CW 07-10-02 Mon 1000 (CS)
9153.0 V02a Excellent signal strength, rotten audio (as usual). AM
03-10-02 Thu 0700 (BD)
9153.0 V02a in prog; extremely distorted AM 10-10-02 Thu 0715 (BM)
9153.0 V02a A 31172 88162 81481; repeat of 0600 8097kHz except
first id last digit increment AM 12-10-02 Sat 0700
9153.0 V02a In prog AM 17-10-02 Thu 0715 (BM)
9160 M23 555 555 555 CW 29-09-02 0558 (Vambo)
9203 E10 end of msg. End of transmission AM 01-10-02 1850
9203 XP 0-msg 15-10-02 Tue 2000 (HFD)
9219.0 E05 256 count 199 //8085 USB 19-10-02 Sat 1900 (ASC)
9220 E05 id 273 AM 28-09-02 1903 (RGA)
9230.0 V02 A 697/04 AM 06-10-02 Sun 0800 (BM)
9230.0 V02 A 697/02 AM 13-10-02 Sun 0800 (BM)
9230.0 V02 A 728/05 AM 14-10-02 Mon 1000 (BM)
9237.0 M08a (in progress) CW 31-10-02 Thu 1000 (MS)
9238.0 M08 VERY strong signal; found in progress. CW 07-10-02 Mon
0912 (BD)
9238.0 M08a ID 86892 77322 53753 CW 06-10-02 Sun 1100 (MS)
9238.0 M08a ID 14473 97902 78152 (rpt of 1000z on 8136m) CW

20-10-02 Sun 1100 (MS)
 9238.0 M08a ID 04093 03402 23423 (rpt of 1000z on 8136m) CW
 27-10-02 Sun 1100 (MS)
 9251 E03 56931 USB 02-10-02 2000 (TI26)
 9251 E03 28733 USB 02-10-02 2100 (TI26)
 9251 E03 56931 USB 03-10-02 1900 (TI26)
 9251 E03 97729 USB 03-10-02 2000 (TI26)
 9251 E03 69390 USB 03-10-02 2100 (TI26)
 9251 E03 Mi6 69390 USB 03-10-02 Thu 2100 (TPA)
 9251 E03 Mi6 28733 USB 03-10-02 Thu 2200 (TPA)
 9251 E03 97729 USB 04-10-02 2100 (TI26)
 9251 E03 69390 USB 04-10-02 2200 (TI26)
 9251 E03 56931 USB 05-10-02 2100 (TI26)
 9251 E03 97729 USB 05-10-02 2200 (TI26)
 9251 E03 MI6 97739 USB 05-10-02 Sat 2200 (TPA)
 9251 E03 MI6 07657 USB 06-10-02 Sat 2105 (TPA)
 9251 E03 MI6 86297 USB 09-10-02 Wed 2200 (TPA)
 9251 E03 MI6 28733 USB 10-10-02 Thu 2203 (TPA)
 9251 E03 LP. Id 87527 USB 24-10-02 Thu 2100 (AB)
 9270 E10 KPA2 //6370 USB 29-09-02 Sun 1616 (TI)
 9270 E10 KPA2 //7445 10970 USB 01-10-02 Tue 1518 (TI)
 9270 E10 KPA2 //7445 6370 USB 14-10-02 Mon 1616 (TI)
 9270 E10 KPA2 //6370 7445 USB 14-10-02 Mon 1716 (TI)
 9270 E10 KPA2 //7445 6370 USB 18-10-02 Fri 1717 (TI)
 9270.0 E10 MIW2 USB 01-10-02 Tue 1615 (CG2)
 9323.0 M08a (in progress) CW 31-10-02 Thu 1000 (MS)
 9330.0 M08a ID 21082 15011 24562 (rpt of 0400z on 10125m) CW
 05-10-02 Sat 0500 (MS)
 9330.0 M08a in prog; _____ WWTAN AITDA CW 12-10-02 Sat 0512 (BM)
 9331.0 M08a CW 07-10-02 Mon 1200 (CS)
 9331.0 M08a ID 69753 86564 81634 CW 14-10-02 Mon 1200 (BS3)
 9331.0 M08a ID 16503 97261 60131 CW 20-10-02 Sun 1200 (MS)
 9331.0 M08a ID 87864 77232 59512 CW 30-10-02 Wed 1200 (MS)
 9331.0 V02a A 38232 30203 53313; M8a mixing in bg repeat of
 0500/10446 AM 14-10-02 Mon 0600 (BM)
 9331.5 M08 5LGs AR AR AR CW 26-10-02 1236 (RC)
 9342 M13 517 CW 07-10-02 Mon 1900 (HFD)
 9342 M13 517 CW 07-10-02 Mon 2000 (HFD)
 9342.0 M13 517 (R5) (QRM heavy) CW 22-10-02 Tue 2000 (MS)
 9367 E07 637/1 AM 07-10-02 Mon 2020 (HFD)
 9725.0 V13 QRM4/5 AM 26-10-02 Sat 1400 (LC2)
 9943 M13 823 CW 02-10-02 Wed 0600 (HFD)
 9943 M13 823 CW 03-10-02 Thu 0600 (HFD)
 10046 M22 4XZ - Israeli navy Haifa. VVV marker + coded msgs CW
 05-10-02 Sat 2117 (AB)
 10124.9 M08 End of msgs "AR AR AR SK SK SK" CW 05-10-02 0334
 (JK1)
 10124.9 M08 ID 11722 Short callup then silent. CW 05-10-02 0344

10124.9 M08? Male voice "TEST TEST" distorted audio. Sounds like
 Modulated CW using VOX with audio hum. Testing in both
 voice and CW. LSB/CW 05-10-02 0350 (JK1)
 10125 M08 CW 05-09-02 0300 (RC)
 10125.0 M08a ID 21082 15011 24562 CW 05-10-02 Sat 0400 (MS)
 10125.0 M08a in prog CW 19-10-02 Sat 0405 (BM)
 10126.0 M08a M8a in prog in AM mode. Faint V2a audio as well. AM
 08-10-02 Tue 0315 (BM)
 10126.0 M08a in prog CW 12-10-02 Sat 0309 (BM)
 10126.0 M08a in prog; faint CW 12-10-02 Sat 0406 (BM)
 10126.0 M08a ID 69662 26863 66473 CW 19-10-02 Sat 0900 (MS)
 10127.0 M08a CW 07-10-02 Mon 1100 (CS)
 10213 XP 0-msg 15-10-02 Tue 2030 (HFD)
 10235.0 M08a ID 86891 21083 53752 CW 06-10-02 Sun 0400 (MS)
 10235.0 M08a in prog CW 18-10-02 Fri 0405 (BM)
 10235.0 M08a ID 80413 47603 23422 CW 27-10-02 Sun 0400 (MS)
 10248 M16 DGSE vvv 8by 017/116/429/381/228/973 CW 05-09-02 1456
 (DW)
 10248 M16 DGSE vvv vvv vvv 8by 8by 8by 033/706/538 CW 11-09-02
 1000 (WP3)
 10248 M16 VVV 8BY 434/893/371/219 CW 27-09-02 1741 (DW)
 10344 M08 5LGs CW 10-10-02 0300 (RC)
 10344 M08 in progress CW 23-10-02 0300 (RC)
 10345.0 M08a ID 55384 60293 55824 CW 31-10-02 Thu 1100 (MS)
 10346 M08 5LGs CW 03-10-02 0338 (RC)
 10426 E03 77430 USB 02-10-02 1600 (TI26)
 10426 E03 69390 USB 05-10-02 1400 (TI26)
 10446 M08 DGI CW 03-10-02 Thu 0300 (TPA)
 10446 V02 DGI 67703-39283-57003 AM 07-10-02 Mon (TPA)
 10446 V02 DGI 69843-11171-54431 AM 09-10-02 Wed (TPA)
 10446 V02 DGI 54421-03551-94423 AM 14-10-02 Mon (TPA)
 10446.0 M08a in prog CW 17-10-02 Thu 0312 (BM)
 10446.0 M08a ID 09073 52782 77392 CW 31-10-02 Thu 1100 (MS)
 10446.0 V02a in prog AM 02-10-02 Wed 0303 (BM)
 10446.0 V02a Just ending distorted hum S7 here AM 07-10-02 Mon
 0003 (Vambo)
 10446.0 V02a A 69853 11171 54431 AM 09-10-02 Wed 0300 (BM)
 10446.0 V02a In prog AM 10-10-02 Thu 0303 (BM)
 10446.0 V02a A 38232 30203 53313; M8a mixing in bg AM 14-10-02 Mon
 0500 (BM)
 10446.0 V02a A 94141 11174 86891 AM 16-10-02 Wed 0300 (BM)
 10527.0 E05 274, weak USB 02-10-02 Wed 0800 (ASC)
 10566.0 M08a ID 25221 66272 50602 CW 06-10-02 Sun 1300 (MS)
 10566.0 M08a ID 69752 86563 81633 CW 13-10-02 Sun 1300 (MS)
 10566.0 M08a ID 69753 96564 81634 CW 14-10-02 Mon 1300 (BS3)
 10566.0 M08a ID 16503 97261 60131 (rpt of 1200z on 9331m) CW
 20-10-02 Sun 1300 (MS)
 10566.0 M08a ID 878 (stops in mid callup-returns later in traffic)

CW 27-10-02 Sun 1300 (MS)
 10566.0 M08a ID 87864 77232 59512 (rpt of 1200z sked on 9331m) CW
 30-10-02 Wed 1300 (MS)
 10648 E10 YHF //5820 USB 31-08-02 Sat 1802 (TI)
 10648 E10 YHF //7918 USB 09-09-02 Mon 1601 (TI)
 10648 E10 YHF USB 15-09-02 Sun 1603 (TI)
 10648 E10 YHF //7918 USB 16-09-02 Mon 1601 (TI)
 10648 E10 in progress USB 25-09-02 1838 (RGA)
 10648 E10 YHF //7918 USB 14-10-02 Mon 1601 (TI)
 10648.0 E10 in progress USB 01-10-02 Tue 1611 (CG2)
 10657 E07 637/1 AM 07-10-02 Mon 2000 (HFD)
 10715.0 M08a ID 46292 35136 76163 CW 30-10-02 Wed 1100 (MS)
 10858.0 M08a ID 66271 50601 17143 CW 05-10-02 Sat 1200 (MS)
 10858.0 M08a ID 67361 77233 59513 CW 31-10-02 Thu 1200 (MS)
 10870.0 MX "C" Moscow CW 21-10-02 Mon 0140 (BM)
 10871.7 MX Cluster beacon "D", Odessa CW 20-10-02 Sun 0941 (AB)
 10871.7 MX "D" Odessa CW 21-10-02 Mon 0134 (BM)
 10871.7 MX D CW 21-10-02 Mon 1741 (TI)
 10871.7 MX D CW 24-10-02 Thu 1644 (TI)
 10871.7 MX D CW 26-10-02 Sat 1641 (TI)
 10871.7 MX Cluster beacon "D" CW 26-10-02 2245 (FL)
 10871.8 MX Cluster beacon "P", Kaliningrad CW 20-10-02 Sun 0942
 10871.9 MX Cluster beacon "S" CW 26-09-02 1838 (RGA)
 10871.9 MX S Arkhangelsk CW 10-10-02 Thu 0236 (BM)
 10871.9 MX Arkhangelsk "S" CW 13-10-02 Sun 0209 (BM)
 10871.9 MX Arkhangelsk "S" CW 14-10-02 Mon 0209 (BM)
 10871.9 MX Arkhangelsk "S" CW 16-10-02 Wed 0205 (BM)
 10872 MX Cluster beacon "C" CW 26-09-02 1838 (RGA)
 10872 MX Cluster beacon "C", Moscow CW 20-10-02 Sun 0941 (AB)
 10872 MX Cluster beacon "C" CW 26-10-02 2245 (FL)
 10872.2 MX F CW 26-10-02 Sat 1641 (TI)
 10872.4 MX M CW 24-10-02 Thu 1644 (TI)
 10872.4 MX M CW 26-10-02 Sat 1641 (TI)
 10970 E10 KPA2 //7445 9270 USB 01-10-02 Tue 1518 (TI)
 11082.0 E06 197 820 44 AM 19-10-02 Sat 1330 (ASC)
 11116.0 E11 838 oblique 00 USB 02-10-02 Wed 0800 (ASC)
 11204 XP msg 01-10-02 0600
 11205 XP msg 08-10-02 0600 (AF)
 11424.0 M13 714 (R5) BT 217 20 BT CW 10-10-02 Thu 2000 (MS)
 11431.0 M08a WIIRN WIDAD URTAD CW 01-10-02 Tue 0500 (BM)
 11460 M42 FAPSI. Msg on link 60047 RTTY 01-11-02 1637 (RH2)
 11524 M13 253 CW 18-10-02 Fri 2000 (HFD)
 11545 E03 09822 //13375 USB 30-08-02 Fri 1504 (TI)
 11545 E03 81161 USB 31-08-02 Sat 1501 (TI)
 11545 E03 USB 31-08-02 Sat 1644 (TI)
 11545 E03 67684 //13375 USB 31-08-02 Sat 1705 (TI)
 11545 E03 20274 //16084 13375 USB 31-08-02 Sat 1804 (TI)
 11545 E03 68356 //13375 USB 09-09-02 Mon 1604 (TI)

11545	E03	48146 //8464 6959 USB 09-09-02 Mon 1706 (TI)
11545	E03	USB 16-09-02 Mon 1623 (TI)
11545	E03	79888 //16084 13375 USB 20-09-02 Fri 1710 (TI)
11545	E03	//8464 USB 29-09-02 Sun 1634 (TI)
11545	E03	88832 //13375 USB 29-09-02 Sun 1705 (TI)
11545	E03	07657 USB 02-10-02 1500 (TI26)
11545	E03	56931 USB 02-10-02 2000 (TI26)
11545	E03	97729 USB 03-10-02 2000 (TI26)
11545	E03	97729 USB 04-10-02 2100 (TI26)
11545	E03	69390 USB 05-10-02 1400 (TI26)
11545	E03	28733 USB 05-10-02 1500 (TI26)
11545	E03	86297 USB 05-10-02 1600 (TI26)
11545	E03	58811 USB 05-10-02 1700 (TI26)
11545	E03	07657 USB 05-10-02 1800 (TI26)
11545	E03	56931 USB 05-10-02 2100 (TI26)
11545	E03	97729 USB 05-10-02 2200 (TI26)
11545	E03	MI6 97729 USB 05-10-02 Sat 2208 (TPA)
11545	E03	LP, id 97729 USB 06-10-02 Sun 1500 (AB)
11545	E03	97729 //13375 USB 06-10-02 Sun 1510 (TI)
11545	E03	97729 //13375 USB 14-10-02 Mon 1609 (TI)
11545	E03	24716 //13375 USB 26-10-02 Sat 1706 (TI)
11545.0	E03	In prog USB 05-10-02 Sat 1437 (BM)
11556	V02	Atencion AM 04-10-02 0302 (RC)
11565	E10	//13533 USB 31-08-02 Sat 1646 (TI)
11565	E10	EZI //13533 USB 31-08-02 Sat 1701 (TI)
11565	E10	EZI2 //13533 USB 09-09-02 Mon 1601 (TI)
11565	E10	EZI //13533 USB 09-09-02 Mon 1631 (TI)
11565	E10	EZI //13533 USB 09-09-02 Mon 1702 (TI)
11565	E10	EZI2 //13533 USB 15-09-02 Sun 1603 (TI)
11565	E10	EZI //13533 USB 15-09-02 Sun 1631 (TI)
11565	E10	EZI2 //13533 USB 16-09-02 Mon 1602 (TI)
11565	E10	EZI //13533 USB 16-09-02 Mon 1631 (TI)
11565	E10	EZI //13533 USB 16-09-02 Mon 1701 (TI)
11565	E10	USB 20-09-02 Fri 1646 (TI)
11565	E10	EZI //13533 USB 20-09-02 Fri 1701 (TI)
11565	E10	//13533 USB 29-09-02 Sun 1647 (TI)
11565	E10	EZI //13533 USB 29-09-02 Sun 1659 (TI)
11565	E10	EZI USB 08-10-02 Tue 1632 (TI)
11565	E10	EZI2 //13533 USB 14-10-02 Mon 1602 (TI)
11565	E10	EZI //13533 USB 14-10-02 Mon 1632 (TI)
11565	E10	EZI //13533 USB 14-10-02 Mon 1702 (TI)
11565	E10	USB 18-10-02 Fri 1717 (TI)
11565	E10	EZI //13533 USB 26-10-02 Sat 1632 (TI)
11565	E10	EZI //13533 USB 26-10-02 Sat 1702 (TI)
11565	V02	DGI 79851-67602-31522 AM 03-10-02 Thu (TPA)
11565	V02	DGI 32921-54432-11172 AM 10-10-02 Thu (TPA)
11565	V02	Atencion AM 11-10-02 0300 (RC)
11565.0	E10	in prog w/tfc USB 01-10-02 Tue 0212 (BM)

11565.0 E10 EZI USB 01-10-02 Tue 0230 (BM)
11565.0 E10 in progress USB 01-10-02 Tue 1435 (CG2)
11565.0 E10 in progress USB 01-10-02 Tue 2010 (CG2)
11565.0 M08a ID 11722 13022 57242 CW 05-10-02 Sat 0400 (MS)
11566.0 V02a V2a and M8a on top of each other. USB 01-10-02 Tue 0401 (BM)
11566.0 V02a A 32921 54432 11173; repeat of 0200 12215 AM 11-10-02 Fri 0300 (BM)
11598 XP 0-msg 15-10-02 Tue 2010 (HFD)
12150 M87 698 CW 22-10-02 1300 (IB)
12165.0 V02a A 67603 39283 57003 AM 10-10-02 Thu 0200 (BM)
12180.0 V02a In prog AM 02-10-02 Wed 0213 (BM)
12180.0 V02a faint; in prog AM 09-10-02 Wed 0206 (BM)
12215.0 V02a Very weak AM 01-10-02 Tue 0205 (GH)
12215.0 V02a In prog AM 01-10-02 Tue 0240 (BM)
12215.0 V02a A 96662 69983 97103 AM 08-10-02 Tue 0200 (BM)
12215.0 V02a A 32921 54432 11173 AM 11-10-02 Fri 0200 (BM)
12504 XP msg 01-10-02 0620
12603 E03 28733 USB 02-10-02 2100 (TI26)
12603 E03 07657 USB 03-10-02 1600 (TI26)
12603 E03 92195 USB 03-10-02 1800 (TI26)
12603 E03 MI6 28733 USB 03-10-02 Thu 2200 (TPA)
12603 E03 28733 USB 05-10-02 1500 (TI26)
12603 E03 86297 USB 05-10-02 1600 (TI26)
12603 E03 MI6 86291 USB 08-10-02 Tue 2102 (TPA)
12603 E03 MI6 58811 USB 08-10-02 Tue 2204 (TPA)
12603 E03 MI6 86297 USB 09-10-02 Wed 2200 (TPA)
12603.0 E03 weak/barely readable AM 16-10-02 Wed 0021 (JT)
12984 M22 4XZ - Israeli navy Haifa CW 11-09-02 1152 (WP3)
12984 M22 4XZ - Israeli navy Haifa CW 15-09-02 0348 (LC)
12984 M22 4XZ - Israeli navy Haifa. VVV marker + coded msgs CW 05-10-02 Sat 2117 (AB)
12984 M22 4XZ - Israeli navy Haifa CW 10-10-02 1540 (PP1)
12996 M87 792 CW 12-09-02 0702 (IB)
13001 M22 4XZ - Israeli navy Haifa CW 05-10-02 1538 (RH2)
13375 E03 09822 //11545 USB 30-08-02 Fri 1507 (TI)
13375 E03 67684 //11545 USB 31-08-02 Sat 1707 (TI)
13375 E03 20274 //11545 16084 USB 31-08-02 Sat 1809 (TI)
13375 E03 68356 //11545 USB 09-09-02 Mon 1608 (TI)
13375 E03 79888 //16084 11545 USB 20-09-02 Fri 1707 (TI)
13375 E03 88832 //11545 USB 29-09-02 Sun 1706 (TI)
13375 E03 28733 USB 05-10-02 1500 (TI26)
13375 E03 86297 USB 05-10-02 1600 (TI26)
13375 E03 58811 USB 05-10-02 1700 (TI26)
13375 E03 MI6 missed calls USB 05-10-02 Sat 1700 (TPA)
13375 E03 07657 USB 05-10-02 1800 (TI26)
13375 E03 MI6 58811 USB 05-10-02 Sat 1800 (TPA)
13375 E03 LP, id 97729 USB 06-10-02 Sun 1500 (AB)

13375	E03	97729 //11545 USB 06-10-02 Sun 1508 (TI)
13375	E03	97729 //11545 USB 14-10-02 Mon 1608 (TI)
13375	E03	24716 //11545 USB 26-10-02 Sat 1706 (TI)
13375.0	E03	in progress USB 03-10-02 Thu 1437 (CG2)
13375.0	E03	In prog USB 05-10-02 Sat 1621 (BM)
13375.0	E03	very faint; in prog USB 12-10-02 Sat 1541 (BM)
13375.0	E03	very faint; in prog USB 12-10-02 Sat 1642 (BM)
13381	V07	372 AM 03-09-02 Tue 0600 (GN)
13400	M23	555 555 555 CW 29-09-02 0136 (Vambo)
13430.0	E06	Good signal AM 12-10-02 Sat 1238 (CS)
13430.0	E06	in progress AM 12-10-02 Sat 1240 (ASC)
13430.0	E06	197 AM 19-10-02 Sat 1230 (ASC)
13436.0	V02a	faint; in prog AM 08-10-02 Tue 0106 (BM)
13450.0	E05	256 count 199 //16090 USB 17-10-02 Thu 1200 (ASC)
13527.7	MX	Cluster beacon "D", Odessa CW 20-10-02 Sun 0941 (AB)
13527.7	MX	D CW 20-10-02 Sun 1137 (TI)
13527.7	MX	D CW 21-10-02 Mon 1744 (TI)
13527.8	MX	Cluster beacon "P", Kaliningrad CW 20-10-02 Sun 0941
13527.9	MX	Cluster beacon "S" CW 25-09-02 1952 (RGA)
13527.9	MX	Cluster beacon "S", Arkhangelsk CW 06-10-02 Sun 1352
13528	MX	Cluster beacon "C" CW 25-09-02 1952 (RGA)
13528	MX	Cluster beacon "C", Moscow CW 20-10-02 Sun 0941 (AB)
13528	MX	C CW 20-10-02 Sun 1137 (TI)
13528.4	MX	Cluster beacon "M", Magadan CW 23-10-02 Wed 0839 (AB)
13533	E10	EZI2 //15980 USB 30-08-02 Fri 1502 (TI)
13533	E10	//11565 USB 31-08-02 Sat 1647 (TI)
13533	E10	EZI //11565 USB 31-08-02 Sat 1702 (TI)
13533	E10	EZI //9130 USB 31-08-02 Sat 1732 (TI)
13533	E10	EZI2 //11565 USB 09-09-02 Mon 1602 (TI)
13533	E10	EZI //11565 USB 09-09-02 Mon 1632 (TI)
13533	E10	EZI //11565 USB 09-09-02 Mon 1702 (TI)
13533	E10	EZI2 //11565 USB 15-09-02 Sun 1603 (TI)
13533	E10	EZI //11565 USB 15-09-02 Sun 1632 (TI)
13533	E10	EZI2 //11565 USB 16-09-02 Mon 1602 (TI)
13533	E10	EZI //11565 USB 16-09-02 Mon 1632 (TI)
13533	E10	EZI //11565 USB 16-09-02 Mon 1702 (TI)
13533	E10	EZI //11565 USB 20-09-02 Fri 1702 (TI)
13533	E10	EZI //9130 USB 20-09-02 Fri 1732 (TI)
13533	E10	//11565 USB 29-09-02 Sun 1648 (TI)
13533	E10	EZI //11565 USB 29-09-02 Sun 1702 (TI)
13533	E10	EZI2 //15980 USB 01-10-02 Tue 1502 (TI)
13533	E10	EZI USB 08-10-02 Tue 1632 (TI)
13533	E10	EZI2 //11565 USB 14-10-02 Mon 1602 (TI)
13533	E10	EZI //11565 USB 14-10-02 Mon 1632 (TI)
13533	E10	EZI //11565 USB 14-10-02 Mon 1703 (TI)
13533	E10	EZI //9130 USB 14-10-02 Mon 1733 (TI)
13533	E10	EZI //11565 USB 26-10-02 Sat 1632 (TI)
13533	E10	EZI //11565 USB 26-10-02 Sat 1702 (TI)

13533 E10 EZI //9130 USB 26-10-02 Sat 1732 (TI)
13904 XP msg 01-10-02 0640
13906 E05 397 //15732 USB 01-09-02 Sun 1200 (TI)
13906.0 E05 629 count 194 //15732 USB 02-10-02 Wed 1200 (ASC)
13906.0 E05 523 count 109 (?) //15732 USB 06-10-02 Sun 1200 (ASC)
14000 E10 YHF in progress //7918//10648 AM 1818 (AA)
14487 E03 56931 USB 02-10-02 1300 (TI26)
14487 E03 07657 USB 02-10-02 1500 (TI26)
14487 E03 07657 USB 03-10-02 1600 (TI26)
14487 E03 92195 USB 03-10-02 1800 (TI26)
14487 E03 28733 USB 05-10-02 1200 (TI26)
14487 E03 56931 USB 05-10-02 1300 (TI26)
14487 E03 69390 USB 05-10-02 1400 (TI26)
14487 E03 LP id 36853 USB 28-10-02 Mon 1400 (AB)
14487.0 E03 in progress USB 03-10-02 Thu 1437 (CG2)
14739 E05 325 //16198 USB 30-08-02 Fri 1506 (TI)
14739 E05 325 //16198 USB 10-09-02 Tue 1500 (TI)
14739 E05 //16198 USB 29-09-02 Sun 1524 (TI)
14739 E05 780 //16198 USB 01-10-02 Tue 1505 (TI)
14739 E05 id 780 USB 06-10-02 Sun 1500 (AB)
14739 E05 780 //16198 USB 06-10-02 Sun 1502 (TI)
14739 E05 780 //16198 USB 22-10-02 Tue 1500 (TI)
14739.0 E05 780? count 215 //16198, weak USB 04-10-02 Fri 1500
14739.0 E05 in progress //16198 USB 06-10-02 Sun 1530 (ASC)
14815 X06 Mazielka call 06-09-02 1330 (DW)
14830.0 V02 A 674/02 ??/?? AM 16-10-02 Wed 2100 (BM)
14931.0 M16 Came into it at 17:45z, ended 18:00z heavy fading but
ID readable CW 26-10-02 Sat 0017 (TAH)

15682 E03 56931 USB 02-10-02 1300 (TI26)
15682 E03 28733 USB 05-10-02 1200 (TI26)
15682 E03 56931 USB 05-10-02 1300 (TI26)
15682 E03 58811 USB 05-10-02 1700 (TI26)
15682.0 E03 in progress USB 01-10-02 Tue 1330 (CG2)
15732 E05 397 //13906 USB 01-09-02 Sun 1201 (TI)
15732.0 E05 629 count 194 //13906 USB 02-10-02 Wed 1200 (ASC)
15732.0 E05 523 count 109 (?) //13906 USB 06-10-02 Sun 1200 (ASC)
15980 E10 EZI2 //13533 USB 30-08-02 Fri 1502 (TI)
15980 E10 EZI2 //13533 USB 01-10-02 Tue 1503 (TI)
15980.0 E10 EZI2 USB 01-10-02 Tue 1330 (CG2)
16084 E03 20274 //11545 13375 USB 31-08-02 Sat 1809 (TI)
16084 E03 79888 //13375 11545 USB 20-09-02 Fri 1706 (TI)
16084 E03 56931 USB 02-10-02 1300 (TI26)
16084 E03 07657 USB 02-10-02 1500 (TI26)
16084 E03 28733 USB 05-10-02 1200 (TI26)
16084 E03 56931 USB 05-10-02 1300 (TI26)
16084.0 E03 in progress USB 01-10-02 Tue 1330 (CG2)
16084.0 E03 in progress USB 03-10-02 Thu 1437 (CG2)
16090.0 E05 255 //13450 USB 08-10-02 Tue 1200 (ASC)

16090.0 E05 256 count 199 //13450 USB 17-10-02 Thu 1200 (ASC)
16198 E05 325 //14739 USB 30-08-02 Fri 1506 (TI)
16198 E05 325 //14739 USB 10-09-02 Tue 1500 (TI)
16198 E05 //14739 USB 29-09-02 Sun 1524 (TI)
16198 E05 780 //14739 USB 01-10-02 Tue 1505 (TI)
16198 E05 id 780 USB 06-10-02 Sun 1500 (AB)
16198 E05 780 //14739 USB 06-10-02 Sun 1502 (TI)
16198 E05 780 //14739 USB 22-10-02 Tue 1500 (TI)
16198.0 E05 780? count 215 //14739, weak USB 04-10-02 Fri 1500
16198.0 E05 In prog USB 05-10-02 Sat 1622 (BM)
16198.0 E05 in progress //14739 USB 06-10-02 Sun 1530 (ASC)
16198.0 E05 Cynthia, counting away USB 08-10-02 Tue 1508 (BM)
16331.7 MX Cluster beacon "D", Odessa CW 20-10-02 Sun 0942 (AB)
16331.7 MX D CW 24-10-02 Thu 1651 (TI)
16331.8 MX Cluster beacon "P", Kaliningrad CW 20-10-02 Sun 0942
16331.9 MX Cluster beacon "S", Arkhangelsk CW 06-10-02 Sun 1328
16332 MX Cluster beacon "C", Moscow CW 20-10-02 Sun 0942 (AB)
16332 MX C CW 20-10-02 Sun 1137 (TI)
16418 M87 154 CW 17-09-02 0334 (IB)
17410 E10 EZI2 USB 01-10-02 Tue 1533 (TI)
17410.0 E10 EZI2 USB 01-10-02 Tue 1330 (CG2)
17410.0 E10 EZI2 in AM mode during local daytime AM 12-10-02 Sat
1532 (BM)
18233 E03 58811 USB 02-10-02 1400 (TI26)
18475.0 V02a In prog AM 17-10-02 Thu 2303 (BM)
18617.0 E05 in progress USB 19-10-02 Sat 1425 (ASC)
18864 E04 95319 USB 02-10-02 1100 (TI26)
18864 E04 58268 USB 02-10-02 1200 (TI26)
18864 E04 22311 USB 02-10-02 1300 (TI26)
18864 E04 58268 USB 03-10-02 1100 (TI26)
18864 E04 Cherry Ripe id 90661 USB 28-10-02 Mon 1100 (AB)
18864 E04 Cherry Ripe id 51721 USB 28-10-02 Mon 1200 (AB)
18864.0 E04 cherry ripe i/p USB 02-10-02 Wed 1340 (ASC)
18864.0 E04 in progress, weak USB 08-10-02 Tue 1130 (ASC)
18864.0 E04 weak/unreadable USB 08-10-02 Tue 1200 (ASC)
18864.0 E04 ?4843 //23461 USB 17-10-02 Thu 1200 (ASC)
18864.0 E04 16401 USB 17-10-02 Thu 1300 (ASC)
19331 M42? Possible M42 in morse. VVV WSK WSK WSK 1/3TT. NW NW
111TT TTT64 12345 12T18 T3TT9 = = 84864 7T412 1577T
... 58251 33644 56845 = = QRU QRU SK SK CW 12-09-02
1055 (Iso)
19452 E03 58811 USB 02-10-02 1400 (TI26)
19604 M40 611,252 CW 17-09-02 0330 (IB)
20047.7 MX Cluster beacon "D", Odessa CW 20-10-02 Sun 0942 (AB)
20047.8 MX Cluster beacon "P", Kaliningrad CW 20-10-02 Sun 1010
20047.9 MX Cluster beacon "S", Arkhangelsk CW 06-10-02 Sun 1250
20048 MX Cluster beacon "C", Moscow CW 20-10-02 Sun 0941 (AB)
20048 MX C CW 20-10-02 Sun 1141 (TI)

20048	MX	Cluster beacon "C", Moscow CW 28-10-02 0859 (DW)
20707	E03	58811 USB 02-10-02 1400 (TI26)
20946	M16	8BY CW 10-10-02 1355 (PP1)
21866	E04	22311 USB 02-10-02 1300 (TI26)
23461	E04	95319 USB 02-10-02 1100 (TI26)
23461	E04	58268 USB 02-10-02 1200 (TI26)
23461	E04	58268 USB 03-10-02 1100 (TI26)
23461	E04	Cherry Ripe id 90661 USB 28-10-02 Mon 1100 (AB)
23461	E04	Cherry Ripe id 51721 USB 28-10-02 Mon 1200 (AB)
23461.0	E04	?4843 //18864 USB 17-10-02 Thu 1200 (ASC)
23740	E10	EZI AM 30-08-02 Fri 1403 (TI)

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